

ATGGCTTTGG	AACAGAACCA	GTCAACAGAT	TATTATTATG	AGGAAAATGA	50
M A L E	Q N Q	S T D	Y Y Y E	E N E	
AATGAATGGC	ACTTATGACT	ACAGTCAATA	TGAACTGATC	TGTATCAAAG	100
M N G	T Y D Y	S Q Y	E L I	C I K E	
AAGATGTCAG	AGAATTTGCA	AAAGTTTTC	TCCCTGTATT	CCTCACAATA	150
D V R	E F A	K V F L	P V F	L T I	
GTTTTCGTCA	TTGGACTTGC	AGGCAATTCC	ATGGTAGTGG	CAATTTATGC	200
V F V I	G L A	G N S	M V V A	I Y A	
CTATTACAAG	AAACAGAGAA	CCAAAACAGA	TGTGTACATC	CTGAATTTGG	250
Y Y K	K Q R T	K T D	V Y I	L N L A	
CTGTAGCAGA	TTTACTCCTT	CTATTCACCTC	TGCCTTTTTG	GGCTGTTAAT	300
V A D	L L L	L F T L	P F W	A V N	
GCAGTTCATG	GGTGGGTTTT	AGGGAAAATA	ATGTGCAAAA	TAACTTCAGC	350
A V H G	W V L	G K I	M C K I	T S A	
CTTGACACA	CTAAACTTTG	TCTCTGGAAT	GCAGTTTCTG	GCTTGTATCA	400
L Y T	L N F V	S G M	Q F L	A C I S	
GCATAGACAG	ATATGTGGCA	GTAAGTAAAG	TCCCCAGCCA	ATCAGGAGTG	450
I D R	Y V A	V T K V	P S Q	S G V	
GGAAAACCAT	GCTGGATCAT	CTGTTTCTGT	GTCTGGATGG	CTGCCATCTT	500
G K P C	W I I	C F C	V W M A	A I L	
GCTGAGCATA	CCCCAGCTGG	TTTTTTTATAC	AGTAAATGAC	AATGCTAGGT	550
L S I	P Q L V	F Y T	V N D	N A R C	
GCATTCCCAT	TTTCCCCCGC	TACCTAGGAA	CATCAATGAA	AGCATTGATT	600
I P I	F P R	Y L G T	S M K	A L I	
CAAATGCTAG	AGATCTGCAT	TGGATTTGTA	GTACCCTTTC	TTATTATGGG	650
Q M L E	I C I	G F V	V P F L	I M G	
GGTGTGCTAC	TTTATCACAG	CAAGGACACT	CATGAAGATG	CCAAACATTA	700
V C Y	F I T A	R T L	M K M	P N I K	
AAATATCTCG	ACCCCTAAAA	GTTCTGCTCA	CAGTCGTTAT	AGTTTTTCATT	750
I S R	P L K	V L L T	V V I	V F I	
GTCACTCAAC	TGCCTTATAA	CATTGTCAAG	TTCTGCCGAG	CCATAGACAT	800
V T Q L	P Y N	I V K	F C R A	I D I	
CATCTACTCC	CTGATCACCA	GCTGCAACAT	GAGCAAACGC	ATGGACATCG	850
I Y S	L I T S	C N M	S K R	M D I A	
CCATCCAAGT	CACAGAAAGC	ATCGCACTCT	TTCACAGCTG	CCTCAACCCA	900
I Q V	T E S	I A L F	H S C	L N P	
ATCCTTTATG	TTTTTATGGG	AGCATCTTTC	AAAAACTACG	TTATGAAAGT	950
I L Y V	F M G	A S F	K N Y V	M K V	
GGCCAAGAAA	TATGGGTCCT	GGAGAAGACA	GAGACAAAGT	GTGGAGGAGT	1000
A K K	Y G S W	R R Q	R Q S	V E E F	
TTCCTTTTGA	TTCTGAGGGT	CCTACAGAGC	CAACCAGTAC	TTTGTAGCATT	1050
P F D	S E G	P T E P	T S T	F S I	
TAAAGGTAAA	ACTGCTCTGC	CTTTTGCTTG	GATACATATG	AATGATGCTT	1100
- R - N	C S A	F C L	D T Y E	- C F	
TCCCTCAAAA	TAAAACATCT	GCCTTATTCT	GAAAAAAM	AAAAAAM	1147
P L K	- N I C	L I L	K K K	K K	

FIG. 1

CCX-CKR	MALEQNQSTDY ^Y YE--ENEMNGTY-----DYSQYELIC ^I IK	33
CCR9	MTPTDFTSPIPNMADDY ^G -SESTSSM-EDYVN----FNFTDF--YCEK	
CCR7	MDLGKPMKSVLVVALLVIFQVCLCQDEVTD ^D YIGDNTTVDYTLFESL ^C SK	
CCR6	MSGESMNFSDVFDSS ^E DYFVS-----VNTSY ^S YS----VDSEML--L ^C SL	
STRL33	MAEHDYHEDY ^G FS-----SF-NDSSQEEHQDF--L---	

TM1

CCX-CKR	EDVREFAKVFL ^E VFLTIVFVIGLAGNSMVAIVAYYKKQRTKTDVY ^I LNL	83
CCR9	NNVROFASHFL ^E PLYWLVEIVGALGNSLVILVWYCTRVKTM ^D MFLLNL	
CCR7	KDVRNEKAWFL ^E PIYYSIICFVGILGNGLVVLT ^I YIFKRLKTM ^D IT ^I YLLNL	
CCR6	QEVROFSRL ^E FVPIAYSILQVFGILGNILV ^I VTFAFYK ^K ARSMTDVY ^I LLNM	
STRL33	----QESKVELECMYLV ^E VEVCCIVGNSLV ^I LVISIFM ^H KLQSLTDVFLVNL	

TM2

TM3

CCX-CKR	AMADLL ^L FTLPFWAV-NAVHGV ^L GKIMCKITSALYTLN ^F VSGM ^Q FL ^I AC	132
CCR9	ATADLL ^L FLVTL ^P FWAIA-AADQWK ^F QTHMCKVNSMYKM ^N FYSCVLLIMC	
CCR7	AVADIL ^L FLTL ^P FWAYS-AAKSW ^V FGVHFCKLIFAIYK ^M SFFSGMLIL ^L LC	
CCR6	ATADIL ^L FLVTL ^P FWAVSHATGAW ^V FSNATCKLLKGIMAIN ^F NCCGMLIL ^L TC	
STRL33	PLADIV ^F VCTLP ^F WAYA-GIHEW ^V FGQVMCKSLLGI ^T IN ^F YTSMLIL ^L TC	

TM4

CCX-CKR	ISIDRYVA ^V TK-VPSQSGV ^G KP---CWII ^C FCVWMAAILLSI ^H QLV ^F YTV	178
CCR9	ISVDRYIAIAQAMRAHTWREK ^R LLYSKMV ^C FTI ^W VLAAL ^C IHEILYSQI	
CCR7	ISIDRYVAIVQAVSAHRHRARVLLISKLS ^C VGSAILAT ^V LSIHELLYS ^D L	
CCR6	ISM ^D RYIAIVQATKSFRLRSRTLPRTKII ^C LVVWGLSVI ^I SSSTFVFNQK	
STRL33	ITVD ^H FIVVVKATKAYNQQA ^K RMTWGKVTSL ^L IWVISLLV ^S LEQIIYGNV	

TM5

CCX-CKR	NDNAR---CIPIFPRY-LGTSMKALIQ ^M LEICIGFV ^F FLIMGV ^C YFITA	224
CCR9	KEESGIAI ^C TMVYPS-DESTKLK ^S AVITLKVILGFFL ^P FFVVMACCYTII ^I	
CCR7	QRSSSEQAMRCSLIT-EHVEAF-ITIQAQMVIGFL ^V PLLAMSF ^C YLVII	
CCR6	YNTQGS ^D VCEPKYQTVSEPIRW ^K LLMLG ^L ELLFG ^F FIPLMFMI ^F CYTFIV	
STRL33	FNLDKL-IC--GYH--DEAIS--TVVLATQMTL ^G EFLL ^L TMIV ^C YSVII	

TM6

CCX-CKR	RTL ^M KMF ^N IKISR ^F LKVLLT ^V IVFIVT ^I QLPYN ^I VKFCRAIDIIYSLITS	274
CCR9	HTLIQAKKSSKHKAL ^K VTIT ^V LTVEVLS ^Q FPYNCILLVQTIDAYAMFISN	
CCR7	RTL ^L QARNFERNKA ^K IVIIAVV ^V VEIVFOLPYNG ^V VLAQTVANFNITSST	
CCR6	KTLVQAQNSKRHKAI ^R MI ^I AVVLVFLACQ ^I PHNMULLV-TAANLGKMNRS	
STRL33	KTL ^L LHAGGFQK ^H RS ^L KTI ^F FLVMAV ^L LLTOM ^P FNLMKFIRSTH-----WE	

FIG. 2A

TM7

CCX-CKR	CNMSKRMDIAIQVTESTALFHSCLNEILYVEMGASFKNYVMK-----V	317
CCR9	CAVSTINIDICFQVTQTIAFFHSCLNEVLVVEVGERFRDLVKITLKNLGCI	
CCR7	CELSKQLNTIAYDVTYSIACVRCVNFLLYAFIGVKFRNDIFKLFKDLGCL	
CCR6	CQSEKILIGYTKTVTEVLAFLLCCCLNEVLVAFIGQKFRNYFLKILKDLWCV	
STRL33	YYAMTSFHYTIMVTEATAYLRACLNEVLVAFVSLKFRKNFWKLVKDIGCL	

CCX-CKR	AKK--GSWRRQRQSVPEFPFDSEGP--TEPTSTESI	350
CCR9	SQA-QWVSFTR----REGSLK-LSSMLLETTSGALSL	
CCR7	SQE-QLRQWSS----CRHIRR-SSMSVEAETITTFSP	
CCR6	RRKFKSSGFSCAGRYSENISRQTSETADNDNASSEFTM	
STRL33	P--V--LGVSHQWKSSFDNSKTFSASHNVEATSMFQL	

FIG. 2A
(CONTINUED)

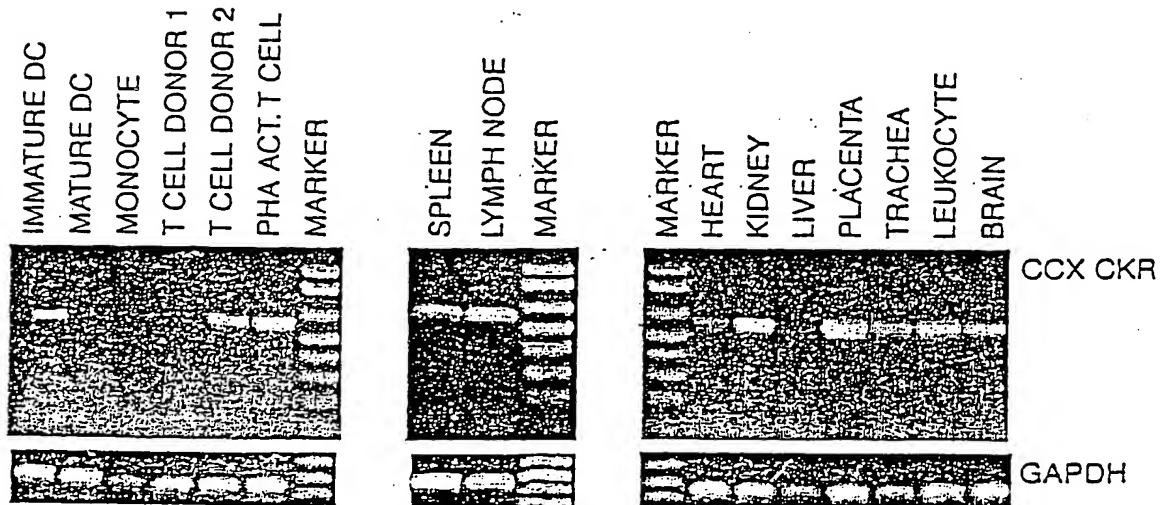


FIG. 2B

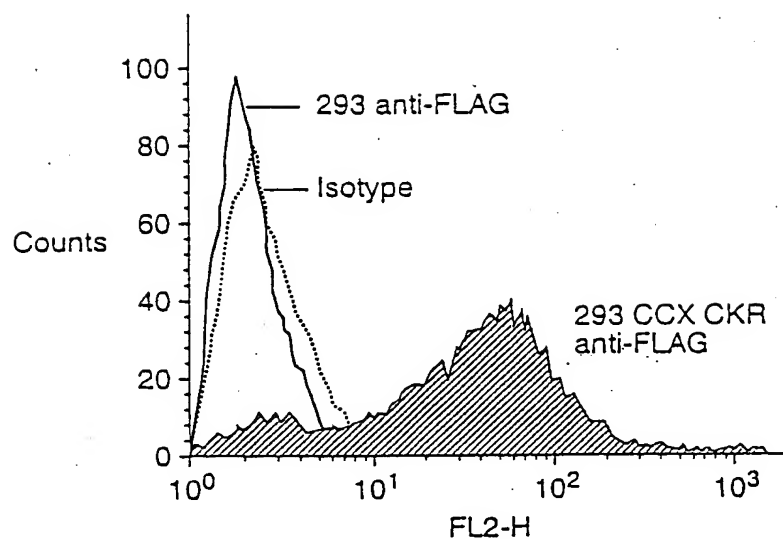


FIG. 2C

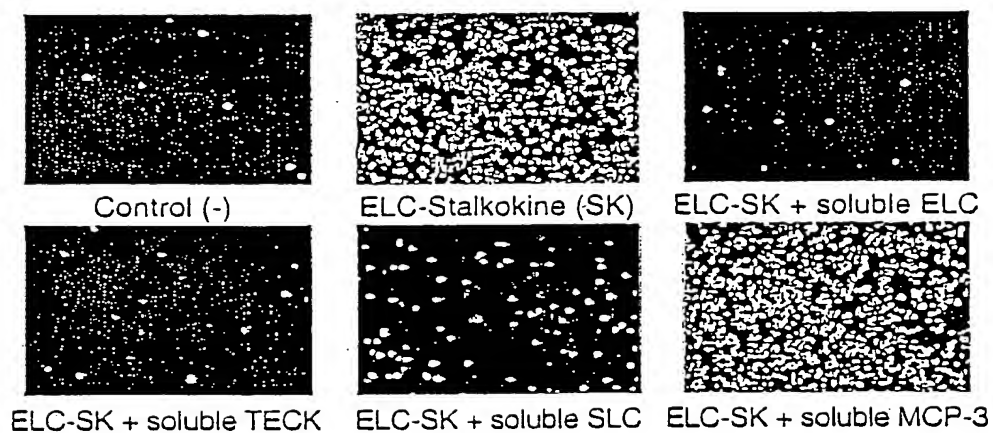


FIG. 3A

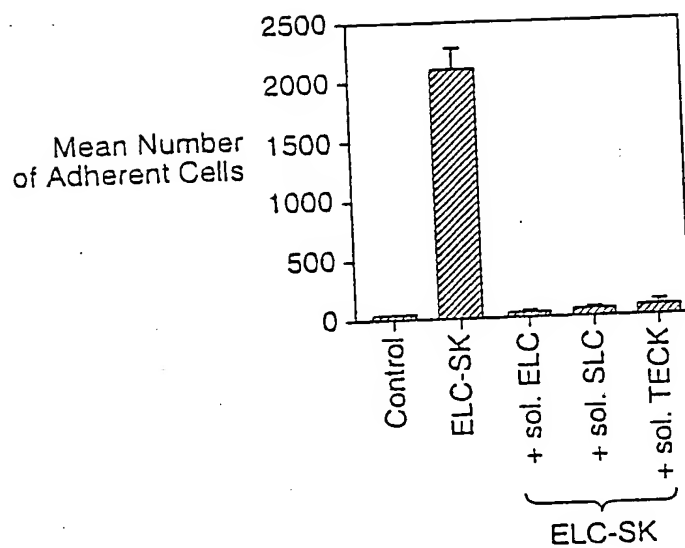


FIG. 3B

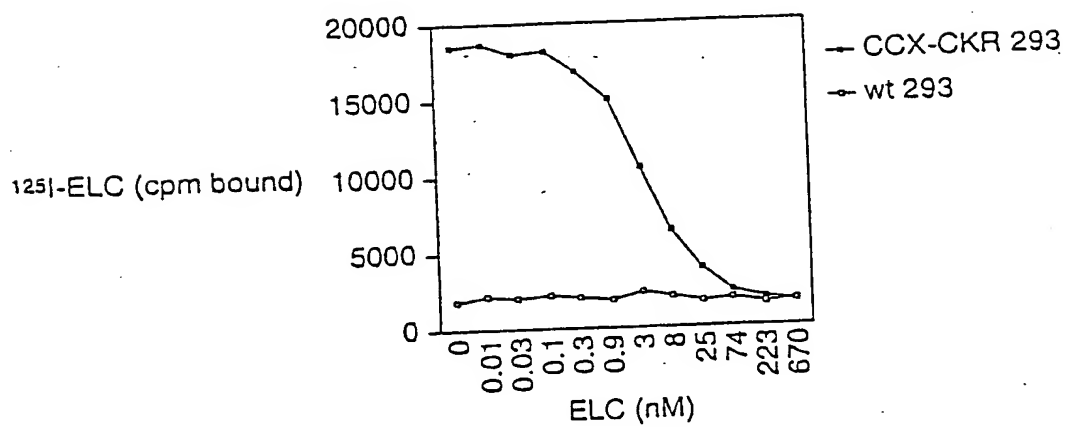


FIG. 3C

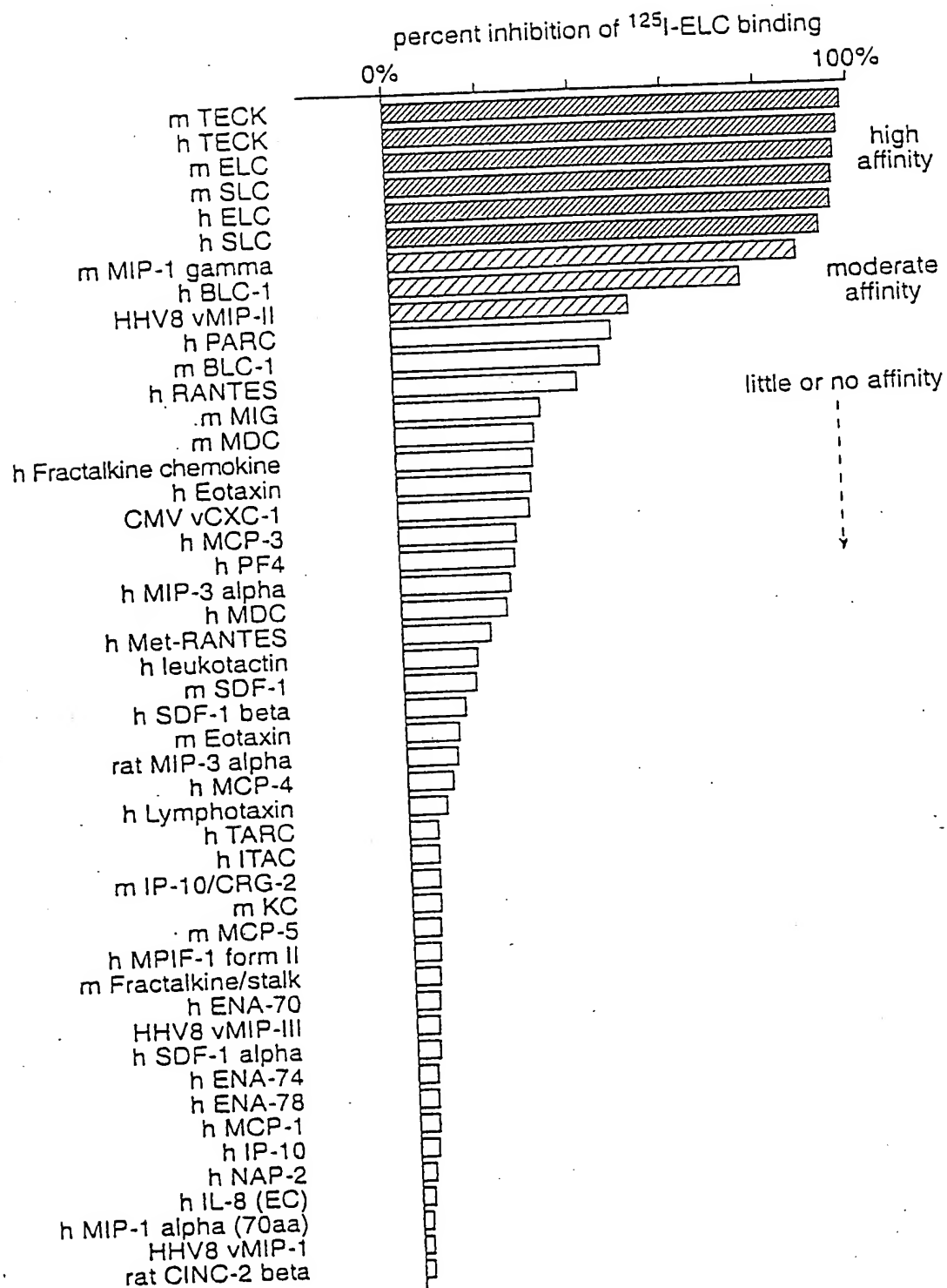


FIG. 4A

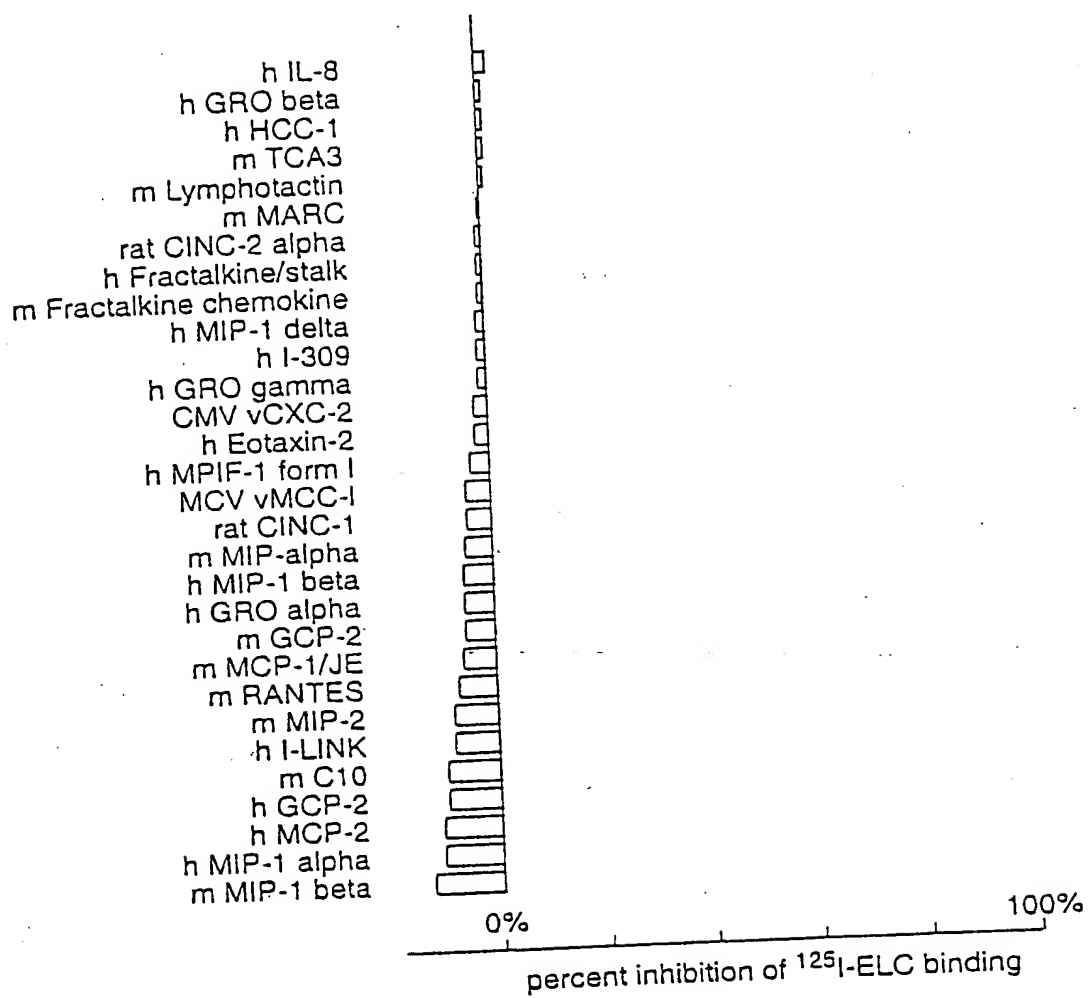
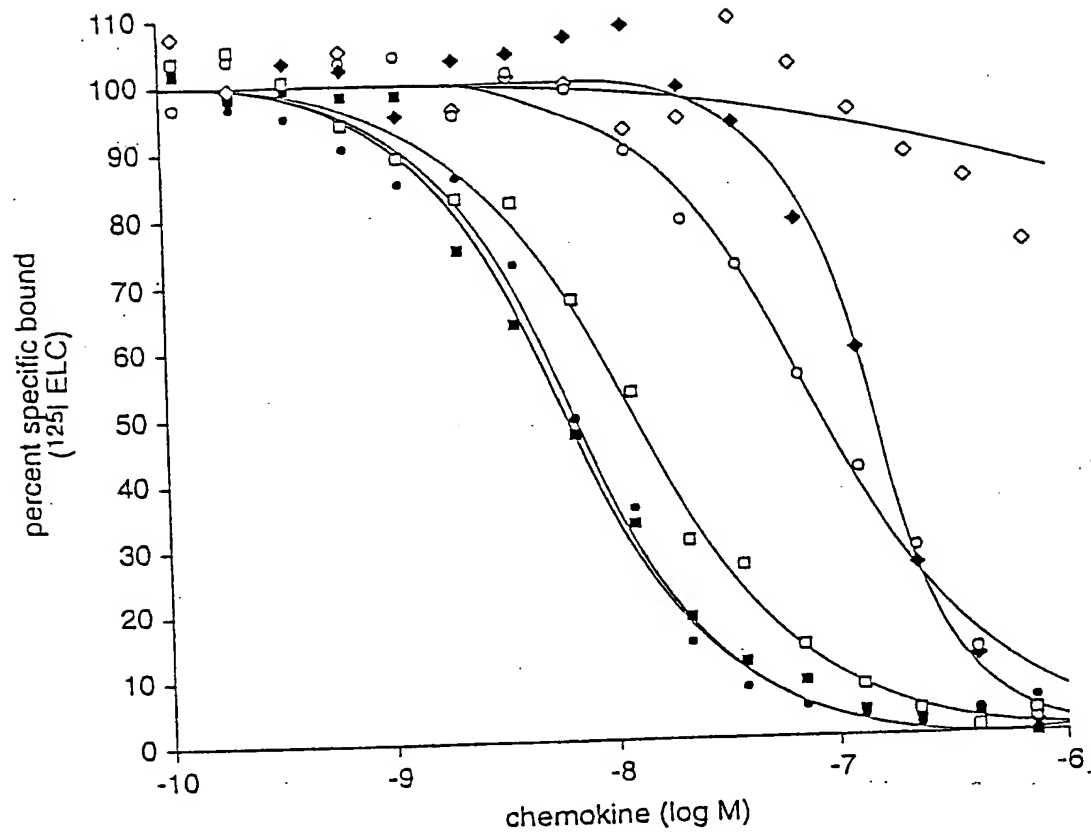


FIG. 4A
(Continued)



human chemokines		murine chemokines	
■ h ELC	IC-50 6 nM	m ELC	IC-50 1 nM
□ h SLC	12 nM	m SLC	4 nM
● h TECK	7 nM	m TECK	2 nM
◆ h BLC-1	140 nM	m MIP-1γ	70 nM
○ HHV8 vMIP-II	90 nM		
◇ h MCP-3	>2000 nM		

FIG. 4B

5'upstream CCXCKR	ATGCAGCATC	TCGTTTATAA	AAGGCAACTA	GTGAAATTTA	GTGCAAATGC	50
5'upstream CCXCKR	TGAGAGAATT	TATTTAACTT	ATTTAAATTA	AATTTATATA	TAACATCAAA	100
5'upstream CCXCKR	ATAAAAATA	AATTTAATTT	AAATAAACCA	AGTAATTTGC	TATTTTCGTT	150
5'upstream CCXCKR	TTTATTCAAT	TTGTTGTAGA	TATACTTTTA	CGATTCACAA	AATTATGTAT	200
5'upstream CCXCKR	GTAAAGATTA	TAACACTATT	TATTCTTTTT	AGTTAAAATC	TAATTAAATT	250
5'upstream CCXCKR	TTCATATTTT	AAAAATCATT	TTTACATAAA	AGTCTTCACT	TTTATTTAGG	300
5'upstream CCXCKR	ATTTAATGAT	TAAGAAAATT	CTCCAGGGCA	TTATGTTTAT	TGTCCTGTTC	350
5'upstream CCXCKR	AAATCCAAGC	TCTTTCACAC	AGAATTGTAC	AAGCAAAGTT	TGAGTAACTA	400
5'upstream CCXCKR	ATCTTGGGGT	CATATTCCAA	TGTGGCTCCC	ATTAAAGCAT	TTCAAAGAGT	450
5'upstream CCXCKR	GCTAGATTCA	GGCTCACATA	TGTTACAGCA	ACAGGCTATA	CTCTAGGGAA	500
5'upstream CCXCKR	AGAACAAAAC	AGCTTGATAG	AACTGIGTG	CTTTAAGCA	TATTTAGACA	550
5'upstream CCXCKR	AATATCTATC	CTGTATTCTC	TTTGCCATCT	AGATTGGAGC	CATGGCTTTG	600
					ATGGCTTTG	9
5'upstream CCXCKR	GAACAGAACC	GTCAACAGA	TTATTATTAT	GAGGAGAAAT	GAAATGAATG	649
	GAACAGAACC	AGTCAACAGA	TTATTATTAT	GAGGA-AAAT	GAAATGAATG	58
5'upstream CCXCKR	GC-CTCATGA	CTACAGTCAG	TATGAACTGA	TCTGT-----	TC	685.
	GCACTTATGA	CTACAGTCFA	TATGAACTGA	TCTGTATCAA	AGAAGATGTC	108
5'upstream CCXCKR	AGAGAAAGAGA	CAGAGGATAT	GC-AAGGGT	TGCTCCCTGT	ATTGCTCACC	734
	AGAGAA-----	TTT GCPAAAGTTT	TCCTCCCTGT	ATTCTCACA		147
5'upstream CCXCKR	ATAG-----			AG-----		740
	ATAGTTTTCG	TCATTGGACT	TGCAGGCAAT	TCCATGGTAG	TGGCAATTTA	197
5'upstream CCXCKR	-----	-----	-----	-----	-----	740
	TGCCTATTAC	AAGAAACAGA	GAACCAAAC	AGATGTGTAC	ATCCTGAATT	247
5'upstream CCXCKR	-----	-----	-----	-----	-----	740
	TGGCTGTAGC	AGATTTACTC	CTTCTATTCA	CTCTGCCTTT	TTGGGCTGTT	297
5'upstream CCXCKR	-----	-----	-----	-----	-----	740
	AATGCAGTTC	ATGGGTGGGT	TTTAGGGAAA	ATAATGTGCA	AAATAACTTC	347

FIG. 5

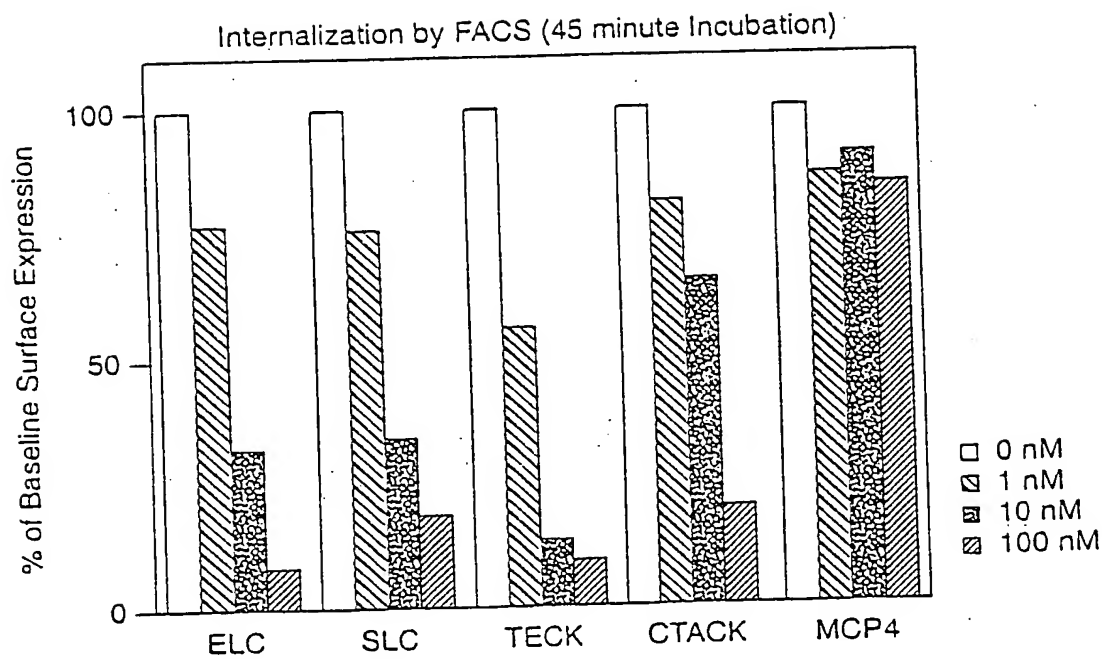


FIG. 6A

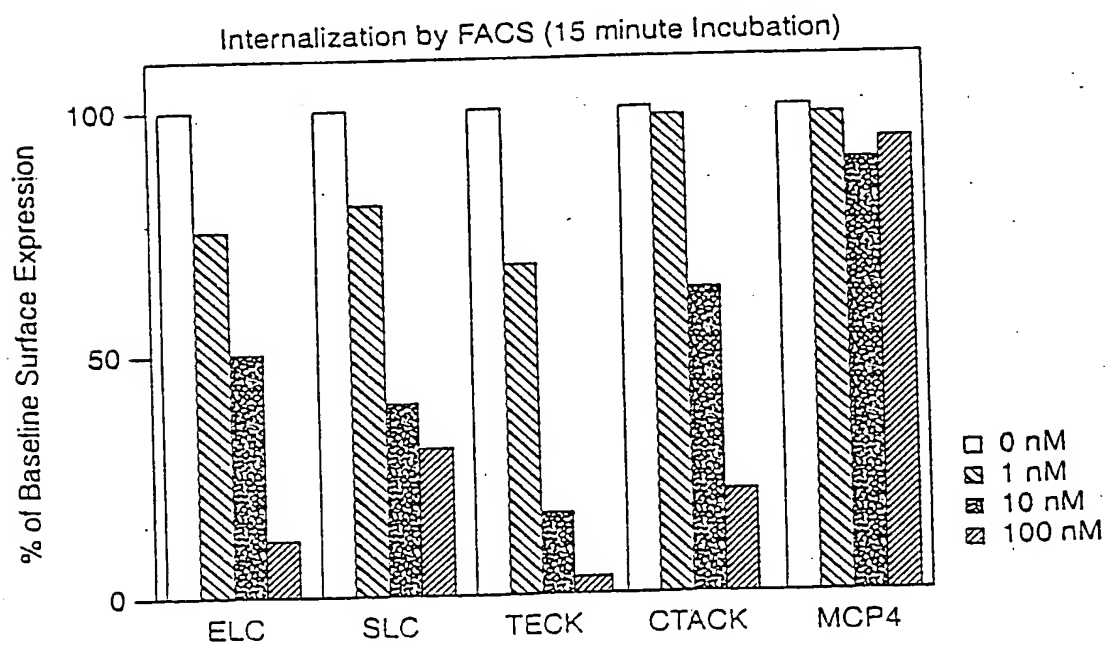


FIG. 6B